

We Claim:

1. A catheter system for creating an isolated blood vessel segment comprising:

a first catheter and a second catheter, each having a proximal and a distal

5 end,

said first catheter having a first expandable occlusion device associated

therewith,

said second catheter having a second expandable occlusion device

associated therewith and being adapted to expand said second occlusion device distally of

10 the first occlusion device on the first catheter,

said second catheter being slidably housed within a first lumen in said first

catheter such the distance between said first and second occlusion device may be varied,

the occlusion devices being expandable to engage a wall of a blood vessel

thereby substantially isolating an interior segment of a desired extend between said first

15 and second occlusion devices, and at least one of said catheters having a relatively stiff proximal region, a softer intermediate region and a still softer distal region.

2. A catheter system for creating an isolated blood vessel segment comprising:

a catheter and a guide wire each having a proximal and a distal end,

said catheter having a first expandable occlusion device associated

20 therewith,

said guide wire having a second expandable occlusion device associated

therewith and being adapted to expand said second occlusion device distally of the first

occlusion device on the first catheter,

said catheter being slidably mounted on said guide wire,

the occlusion devices being expandable to engage a wall of a blood vessel
thereby substantially isolating an interior segment of a desired extend between said first and
second occlusion devices.

5 3. The catheter system of claim 1 wherein the system is provided with a pressure
regulator.

 4. The catheter system of claim 1 wherein said second catheter is provided with a
coaxial lumen surrounding a centrally located lumen.

 5. The catheter system of claim 1 wherein said second catheter is provided with
10 three lumens.

 6. The catheter system of claim 4 wherein said centrally located lumen is provided
with an axially extending tube.

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